

Cloisite 20A

Attachment I

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CLOISITE® 20A**TYPICAL PHYSICAL PROPERTIES BULLETIN****Description:**

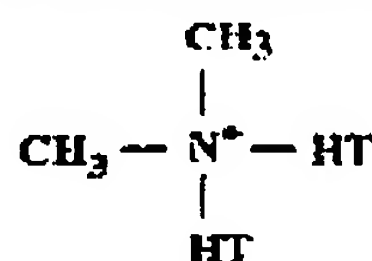
Cloisite® 20A is a natural montmorillonite modified with a quaternary ammonium salt.

**Designed Used:**

Cloisite® 20A is an additive for plastics to improve various plastic physical properties, such as reinforcement, HDT, CLTE and barrier.

Typical Properties:

Treatment/Properties:	Organic Modifier (1)	Modifier Concentration	% Moisture	% Weight Loss on Ignition
Cloisite® 20A	2M2HT	95 meq/100g clay	< 2%	38%



Where HT is Hydrogenated Tallow (~65% C18; ~30% C16; ~5% C14)
Anion: Chloride

(1) 2M2HT: dimethyl, dihydrogenated tallow, quaternary ammonium

Typical Dry Particle Sizes: (microns, by volume)

10% less than:	50% less than:	90% less than:
2μ	6μ	13μ

Color: Off White

Density:

Loose Bulk, lbs/ft ³	Packed Bulk, lbs/ft ³	Specific Gravity, g/cc
7.35	13.55	1.77

X Ray Results: $d_{001} = 24.2\text{\AA}$

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Southern Clay Products, Inc. 1212 Church Street Gonzales, Texas 78629 USA
Phone: (830) 672-2891 Fax: (830) 672-1903 US Toll Free: 1-800-324-2891